2nd

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. Bill & Final Bill Date.....2019

Zone:**BBMP,Yelahanka** Division:**BBMP, Byatarayanapura** Sub-Division:**BBMP, Kodigehalli**

Bill Received No. Dated Divisional / Sub-Divisional Cash Book Voucher No.....Dated.....

Job Code: 007-18-000071

Schedule Docket No. Head of Account: P1771 Est.Cost: Rs.25.00 Lakhs D.R.NO.:

Name of Work : Emergency grants in ward No 07, Byatarayanapura

Name of Contractor and Full Address: Sri.Muniraju B.M (S S Constructions), # 432/A, 1st Main, Shivashankara Block, Hebbala, Bangalore-24

Reference to Agreement No. BBMP/EE/BTP/WO/32/2019-20 Date: 01.07.2019

Certified that the measurements were taken by me on: 10/10/19 and recorded of Pages 192136 to 192150 of measurement Book No 922/2017-18 and that work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that measurement were taken by me on 10/10/19 /2019 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Accont have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Sub-Division Officer

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being.....Percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... adjusted towards cash advance recovery of
   b) Payments cost store or other material supplied.
   Now made recovery of amount creditable to this /other work
   Amount paid on this bill Cheque/Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated .....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within
9) Value of Government materials supplied.

Total amount adjusted

Contractor's Signature

Previous Bill Amount (1st & Part 2nd & Final)	545844	00
TTB	165214	00
total	219058	00
IT	16513	00
CGST	14743	00
SGST	14743	00
LC	16513	00
CESS	1652	00
Royalty	16513	00
Fine	Fine: 800	00
	Ded: 81477	00
Cheque	1569737.00	

Received Rs.....(in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Witness
1
2
Dated Signature of Contractor
Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

(For use in the Office)

Stamp

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P1771-POW ರಡಿ
ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 1651214/- ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ.
ಇದರಲ್ಲಿ ರೂ. 81477/- ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ
ಮಾಡಿಕೊಂಡು ರೂ. 1569737/- ಗಳನ್ನು

Executive Engineer

FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ವಿಷಯ ನಿರ್ವಾಹಕರು
ಲೆಕ್ಕಶೀರ್ಷಿಕೆ ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate Description	Unit
1	KSRB 2-2.1 : Earthwork excation by manual means for foundations of building, culverts,water supply and sanitary lines and elecrical conduits etc., either in pits or in depth including dressing the bottom and sides of pits and ternches, stacking the excavated soil clear form edges of excavation with lead upto 50m. (Including breaking of clods complete as per specifications No. KBS 1.1(a)/2.3.5 (Page no.5, item No. 2.2)	Cum
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @0.57 cum machine mixed, machine mixed concrete liad in layers not exceeding 15cms thick well compacted in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications (Page no.12, item No. 4.3)	cum
3	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications (Page no. 12, item No. 4.6)	cum
4	KSRB 4.2.8 : Providing and laying in position reinfored cement concrete of design mix M20 with OPC cement @320 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3 litrs confirming to IS9103-1999 Reaffirmed- 2008 machine mixed concrete laid in layers not exceeding 15cms thick vibrated for all works in ground floor level for roof slabs staircase lintels and beams retaining walls, return walls, wall (any thickness) including attached pilasters column pillars post struts butresses string or lacing courses, parapets coping bed blocks anchor blocks plain windows cills, fillets etc., including cost of reinforcement as per specifications (Page no. 14, Item No. 4.13)	cum
5	KSRB 4.9.2 : Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications TMT bars Fe 500 (Page no. 17, Item no. 4.46.2)	Tonne
6	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800 kg/m3 having a minimum average compressive strength of 4.00 In/mm2 confirming to IS 2185 (Part 1) :2005 and constructed with CM 1:4, as per IS 2575:2005 including cost of all materails labour charges scaffolding curing hire charges of machineries etc., complte as pe specifications with solid concrete blocks of size 400x150x200mm (Page No. 25, item No. 5.26.2)	sqm
7	Providing Honne wood frames of doors windows, clerestory windows, ventilators and other frames wrought, framed of assembled including making plaster grooves (excluding cost of materials, labour, HOM of machineries complete as per specifications (Page No.51, Item No. 9.11)	cum
8	Providing and fixing flush door shutter made out of solid core black board type, well seasoned chemically treated haed wood battens and internal frame with minimum 45mm wide wooden frame all round door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door using liquid phenol formaldehide resin as per IS specifications 2202 (Part-1) 1991.From Manufacturer(Factory) compler as per specifications (30mm thick both side commercial (Page 62, Item No. 9.106.3)	sqm
9	SOLID PVC DOOR FRAME Providing & fixing made PVC Door frame of size 50x75mm with a wall thickness of 5mm made out of exruded 5mm rigid PVC foam sheet metere cut at corners & jointed 2 Nos. of 150mm long bracket of 15x15mm M.S. Square tube the entire door frame to be reinforced with 19x19mm M.S. Square tube of 19 guage. The Door frame to be fixed to the wall using M.S.Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge (Page 57, Item 9.84)	sqm

Previous Measurement			Present Measurement			Total Upto Date	
Qty	Rate Rs. P.	Amount	Qty	Rate Rs. P.	Amount	Qty	Cost
6.75	150.00	1012.50	0.00	150.00	0.00	6.75	1012.50
5.03	4500.00	22635.00	0.00	4500.00	0.00	5.03	22635.00
3.07	5000.0	15350.00	0.00	5000.0	0.00	3.07	15350.00
1.45	6000.0	8700.00	0.00	6000.0	0.00	1.45	8700.00
0.22	60000.0	13200.00	0.00	60000.0	0.00	0.22	13200.00
27.99	900.0	25191.00	0.00	900.0	0.00	27.99	25191.00
0.13	100000.0	13000.00	0.00	100000.0	0.00	0.13	13000.00
5.04	2000.0	10080.00	0.00	2000.0	0.00	5.04	10080.00
1.58	500.0	790.00	0.00	500.0	0.00	1.58	790.00

10	SOLID PVC DOOR SHUTTER Providing & fixing 30MM thick factory made rigid foam panelled Door shutters made from M.S. tube of 19 gugage thickness size 19x19mm for styles adn 15x15mm for top & bottom rails, covered with heat moulded PVC Channel of 5mm thick sheet and 30x50mm wide to form styles & 5mm thick & 75mm wide PVC sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm PVC sheet as gap insert for tip rail & bottom rail, panelling of 5mm thick PVC Sheet fitted with MS frame, sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos. of 75mm Aluminium hinges (Page 57, Item 9.83)	sqm
11	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page No.114, Item No.15.18)	sqm
12	Providing half nosing for 20mm thick granite slab requied machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specifications (page no. 109, Item No. 14.56)	M
13	Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests 100mm S or P Trap (approved make) cutting and making good the wall and floor wherever required, including cost of materails, labour complete as per specifications (page 77, item No. 12.3)	Each
14	Providing and fixing 7.5cms to 15cms dia NP grating 100mm dia (page no.88, Item No. 12.111)	Each
15	Providing and fixing C.I. Nahani trao of approved make conforming to ISI specificatins and constructin of Cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixture and conveyance of materials to work spot) 10cms to 7.5cms Page no. 88, item No. 12.113.1)	Each
16	Providing and fixing chorinated poly venyl chloride (CPVC) pipes conforming to IS15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases & making good the same including testing of joints complete 20mm nominal OD Pipes (Page No. 96, Item No. 13.86.2)	M
17	Providing and fixing chorinated poly venyl chloride (CPVC) pipes conforming to IS15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases & making good the same including testing of joints complete 25mm nominal OD Pipes (Page No. 96, Item No. 13.86.3)	M
18	Providing and fixing on wall surface 4.0kg /Sq.cm H.D.P.E. rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs screws, including cost of materials, labour, complete as per specifications (Page No. 47, item No. 8.19)	M
19	Providing NP/CP waste union conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete 32mm dia (Page No. 95, Item No. 13.81.1)	Each
20	Construction brick masonry inspection chamber 600x600mm and 450mm depth (clear inside dimension) for single pipes line using table mouled non-modular bricks of class designation 50 in cement mortar 1:5 C.I. cover witth frame (light duty) 450x450mm (Page No. 73, Item No.11.50.1)	Each
21	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification and as per the directions of the Engineer-in-charge of the work (PAGE NO. 126, iTEM NO. 15.106)	sqm
22	Providing and applying painting two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after throughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications with primer.(Page No. 117, Item No. 15.51.2)	sqm

1.58	3000.0	4740.00	0.00	3000.0	0.00	1.58	4740.00
71.63	200.0	14326.00	0.00	200.0	0.00	71.63	14326.00
30.60	150.0	4590.00	0.00	150.0	0.00	30.60	4590.00
2.00	1300.0	2600.00	0.00	1300.0	0.00	2.00	2600.00
10.00	150.0	1500.00	0.00	150.0	0.00	10.00	1500.00
10.00	250.0	2500.00	0.00	250.0	0.00	10.00	2500.00
90.00	140.0	12600.00	0.00	140.0	0.00	90.00	12600.00
75.00	300.0	22500.00	0.00	300.0	0.00	75.00	22500.00
40.00	600.0	24000.00	0.00	600.0	0.00	40.00	24000.00
10.00	100.0	1000.00	0.00	100.0	0.00	10.00	1000.00
4.00	9000.0	36000.00	0.00	9000.0	0.00	4.00	36000.00
296.81	60.0	17808.60	0.00	60.0	0.00	296.81	17808.60
634.68	80.0	50774.40	0.00	80.0	0.00	634.68	50774.40

23	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specificatios (Page No. 119, Item No. 15.59)	sqm
24	Providing and applying painting two coats (excluding priming coat) on new wood surface and/ or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications (Page No.119,item No.15.60.1)	sqm
25	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour complete as per specifications (page no. 125, item No. 15.104)	sqm
26	Providin and installing of pre painted Galvolume Iron Trapezoidal profiled sheet of approved make 1060 mm width (1000mm cover width) 28-30mm crest height with crest distance 200mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47mm +/- 0.02mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25mm length to be fixed over the existing purlins, rafters channels, and trusses (page no. 300, Item No. 38.30)	sqm
27	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry cat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5, admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5, admixed with proprietary water proofing compound to required slope and treatment similarly the adjoining walls up to 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications (Page No. 66, Item No. 10.2)	sqm
28	Providing and fixing white vitreous china clay, water closer Europeon type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P. brass hinges , rubber buffers, 10 litres low level P.V.C. flushing cistern (all are approved make) with fittings, C.I./ M.S. arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications (Page No. 77, item No. 12.5)	Each
29	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P. brass pillar taps with C.I/M.S brackets, 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the walls and floor wherever required , including cost of materials, labour complete as per specifications (Page No. 80, item no, 12.23)	Each
30	Providing and fixing 1500x450mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick broad bakcing including cost of materials, labour complete as per specifications(page No. 83, item No. 12.43)	Each
31	Providing and fixing Chorinated poly venyle chloride(CPVC) pipes coforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass thereaded fittings including fixing the pipe with clamps at 1.00 mtr spacing. This includes jointing of pipes and fitting with one step CPVC solvent cement and testing of joints complete (internal work exposed on wall) 20mm nominla OD pipes (Page No. 96, item No. 13.85.2)	M

9.45	40.0	378.00	0.00	40.0	0.00	9.45	378.00
57.74	80.0	4619.20	0.00	80.0	0.00	57.74	4619.20
303.54 312.22	150.0	45531.00 46833.00	0.00	150.0	0.00	312.22 303.54	46833.00 45531.00
13.50	800.0	10800.00	0.00	800.0	0.00	13.50	10800.00
150.30	900.0	135270.00	0.00	900.0	0.00	150.30	135270.00
2.00	5000.0	10000.00	0.00	5000.0	0.00	2.00	10000.00
3.00	4000.0	12000.00	0.00	4000.0	0.00	3.00	12000.00
3.00	1600.0	4800.00	0.00	1600.0	0.00 4800.00	3.00 6.00	4800.00 9600.00
135.00	130.0	17550.00	0.00	130.0	0.00	135.00	17550.00

32	B. Balance Work of Bangalore One Building KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 Page No. 5 / Item No. 2.3 of PWD SR 2016-17	cum
33	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. Page No.12, Item No. 4.3 of PWD SR 2016-17	cum
34	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 23 / Item No. 5.6, PWD SR 2016-17	cum
35	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 23 / Item No. 5.9, PWD SR 2016-17	cum
36	KSRB 15.1.2 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 113 / Item No. 15.2, PWD SR 2016-17	sqm
37	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 Page No. 12, Item No. 4.11, PWD SR 2016-17	cum
38	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17	Tonne
39	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2 Page No. 15 / Item No. 4.29, PWD SR 2016-17	sqm
40	KSRRB M800-20.Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series) 100 mm x 50mm:-Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 metres high above ground, 2 m centre to centre, complete as per approved drawings as per specifications. MORTH Specification No. 808 Page No. 186 / Item no. 24.24, PWD SR 2016-17	M

0.00	200.0	0.00	25.92	200.0	5184.00	25.92	5184.00
0.00	5000.0	0.00	17.97	5000.0	89850.00	17.97	89850.00
0.00	4000.0	0.00	6.48	4000.0	25920.00	6.48	25920.00
0.00	5000.0	0.00	4.86	5000.0	24300.00	4.86	24300.00
0.00	90.0	0.00	21.60	90.0	1944.00	21.60	1944.00
0.00	6000.0	0.00	28.03	6000.0	168180.00	28.03	168180.00
0.00	60000.0	0.00	3.36 1.92	60000.0	201600.00 115200.00	3.36 1.92	201600.00 115200.00
0.00	500.0	0.00	40.08	500.0	20040.00	40.08	20040.00
0.00	1500.0	0.00	45.68	1500.0	68520.00	45.68	68520.00

41	C. First Floor Bangalore One Building KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 Page No. 12, Item No. 4.11, PWD SR 2016-17	cum
42	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 page No. 13, Item No. 4.19, PWD SR 2016-17	sqm
43	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17	Tonne
44	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No. 16 / Item No. 4.32, PWD SR 2016-17	sqm
45	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2 Page No. 15 / Item No. 4.29, PWD SR 2016-17	sqm
46	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No. 5.26.2, PWD SR 2016-17	sqm
47	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 (P. No. 51/ I. No. 9.11 of PWD SR 2016-17)	cum
48	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 Page No. 50, Item No. 9.15, PWD SR 2016-17	sqm
49	KSRB 9-14-3 : Providing and fixing in position shutters for doors made out of Honne wood styles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 18mm thick of exterior grade plain particle board including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, 9.26.3	sqm
50	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (P.No. 32, I.No. 7.9 of PWD SR 2016-17)	Kgs

0.00	6000.0	0.00	24.62	6000.0	147720.00	24.62	147720.00
0.00	450.0	0.00	6.30	450.0	2835.00	6.30	2835.00
0.00	60000.0	0.00	3.00	60000.0	180000.00	3.00	180000.00
0.00	340.0	0.00	64.80	340.0	22032.00	64.80	22032.00
0.00	540.0	0.00	174.54	540.0	94251.60	174.54	94251.60
0.00	900.0	0.00	147.68	900.0	132912.00	147.68	132912.00
0.00	100000.0	0.00	0.14	100000.0	14000.00	0.14	14000.00
0.00	4500.0	0.00	2.26	4500.0	10170.00	2.26	10170.00
0.00	2900.0	0.00	1.43	2900.0	4147.00	1.43	4147.00
0.00	80.0	0.00	164.64	80.0	13171.20	164.64	13171.20

51	KSRB 7.12 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using four track window frame of size 122.2x31.75mm. for bottom section 1.1mm thick, weight 1.205 kg/m; sides and top sections 1.2 mm. thick weight 1.093 kg/m; shutter section comprising top and bottom section of size 40mmx18mm wall thickness 1.25mm. weight 0.417 kg./m, shutter sideouter 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. weight 0.469 kg/m; shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles, tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenonned and rivetted in the assembled frame to be stiffened with end clips at corners, angles etc.; fixed to the walls, lintels, floor beams;cills, as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar; aluminium sections pretreated for removal of any rust and coated with greasy materials for non adhesion of mortar and other sticky materials; (this coating should be cleaned after installation) including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.	sqm
52	KSRB15-3.12 :Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114, Item No. 15.21 of PWD SR 2016-17 (Inside Plastering)	sqm
53	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114, Item No. 15.21 of PWD SR 2016-17	sqm
54	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. Page No. 115, Item No. 15.33, PWD SR 2016-17	sqm
55	KSRB15-3.9 :Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to Stone Masonry & Concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 114 / Item No. 15.17, PWD SR 2016-17 (Outside Wall)	sqm
56	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification. etc., complete Page No. 107, Item No. 14.45, PWD SR 2016-17	sqm
57	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section powdered coated to a minimum of 60-70 microns with	sqm
58	KSRB 8.6-7 : Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications. Page No. 47 / Item No. 8.18, PWD SR 2016-17	M

0.00	3500.0	0.00	7.74	3500.0	27090.00	7.74	27090.00
0.00	200.0	0.00	105.83	200.0	21166.00	105.83	21166.00
0.00	180.0	0.00	11.36	180.0	2044.80 2045.00	11.36	2044.80 2045.00
0.00	20.0	0.00	117.19	20.0	2343.80 2344.00	117.19	2343.80 2344.00
0.00	190.0	0.00	223.49	190.0	42463.10	223.49	42463.10
0.00	1100.0	0.00	55.90	1100.0	61490.00	55.90	61490.00
0.00	4000.0	0.00	62.24	4000.0	248960.00	62.24	248960.00
0.00	400.0	0.00	6.00	400.0	2400.00	6.00	2400.00

59	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 Page No. 77 / Item No. 12.5, PWD SR 2016-17	Each
60	KSRB 11-11.2 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 81, I.No. 12.24 of PWD SR 2016-17)	Unit
61	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick. Page No.106, Item No. 14.36.2, PWD SR 2016-17	Unit
62	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 15x15 cms 6mm thick Page No.106, Item No. 14.41.1 PWD SR 2016-17	sqm
63	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 12.5cms x 7.5cms Page No. 88, Item No. 12.113.2, PWD SR 2016-17	Each
64	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.96, I.No. 13.86.2 of PWD SR 2016-17)	m
65	KSRB13-6.2-2 : Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 Page No. 91, Item No. 13.27, PWD SR 2016-17	Each
66	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.34 of CSR 2016-17)	Each
67	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia Page No. 88, Item No. 12.116.1, PWD SR 2016-17	m
68	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (P.No. 125, I.No. 15.106 of SR 2016-17).	sqm
69	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. (P. No. 116, I.No. 15.51.2 of SR 2016-17).	sqm

0.00	5000.0	0.00	1.00	5000.0	5000.00	1.00	5000.00
0.00	3100.0	0.00	1.00	3100.0	3100.00	1.00	3100.00
0.00	1111.0	0.00	3.22	1111.0	3577.42	3.22	3577.42
0.00	1000.0	0.00	15.54	1000.0	15540.00	15.54	15540.00
0.00	250.0	0.00	4.00	250.0	1000.00	4.00	1000.00
0.00	190.0	0.00	50.00	190.0	9500.00	50.00	9500.00
0.00	150.0	0.00	2.00	150.0	300.00	2.00	300.00
0.00	500.0	0.00	3.00	500.0	1500.00	3.00	1500.00
0.00	400.0	0.00	30.00	400.0	12000.00	30.00	12000.00
0.00	40.0	0.00	83.76	40.0	3350.40	83.76	3350.40
0.00	80.0	0.00	189.26	80.0	15140.80 15141.00	189.26	15140.80 15141.00

70	Providing and finishing external walls in two coats over one coat of primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. (P.No. 124, I.No. 15.104 of CSR 2016-17).	sqm
71	KSRB 15-17.5 : Applying priming coat over new wood surface and / or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specifications. (P.No. 118, I.No. 15.59 of SR 2015-16).	sqm
72	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. (P.No. 118, I.No. 15.60.1 of SR 2016-17).	sqm
	Total	

CRTIFICATE:

1. Certified that the above work done satisfactory and no materials issued from Department

AE(WS)

0.00	140.0	0.00	222.64	140.0	31169.60	222.64	31169.60
0.00	40.0	0.00	17.01	40.0	680.40	17.01	680.40
0.00	60.0	0.00	17.01	60.0	1020.60	17.01	1020.60
		547147.70			**1742413.72**		**2289561.42**

Assistant Executive Engineer,
Kodigehalli Sub Division,
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